PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference									
T-504	FOR FURTHER ACTION	See Form PCT/IPEA/416							
International application No.	International filing date (day/month/year								
PCT/JP2004/001453	12.02.2004	13.02.2003							
International Patent Classification (IPC) or nation									
D01F 6/00, 6/56, 6/92, D04H 3/00									
Applicant TEIJIN LIMITED									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2. This REPORT consists of a total of	4 sheets, in	acluding this cover sheet.							
3. This report is also accompanied by Al									
a. (sent to the applicant and	to the International Bureau) a total of	sheets as follows:							
sheets of the descrip	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative								
Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
b. (sent to the International I									
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This report contains indications relating	ng to the following items:								
Box No. I Basis of the									
Box No. II Priority									
Box No. III Non-establis	shment of opinion with regard to novelty,	, inventive step and industrial applicability							
	y of invention								
Box No. V Reasoned st									
Box No. VI Certain doct	uments cited								
Box No. VII Certain defe	cts in the international application								
Date of submission of the demand		- CAL:							
Date of Submission of the demand	Date of completion	on or this report							
Name and mailing address of the IPEA/	Authorized office	т							
Facsimile No.	Telephone No.								

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/001453

Box	No. I	Basis of the report				
1.	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 					
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4)				
		international preliminary examination (Rule 55.2 and/	•			
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description:					
		pages*	as originally filed/furnished received by this Authority on			
			received by this Authority on			
	ш	the claims:				
		nos.	as originally filed/furnished			
		nos.*	as amended (together with any statement) under Article 19			
		nos.*	received by this Authority on			
		nos.*	received by this Authority on			
	Ш	the drawings:				
		sheets	as originally filed/furnished			
		sheets*	received by this Authority on			
		sheets*	received by this Authority on			
		a sequence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence Listing.			
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, nos.				
4.			ments annexed to this report and listed below had not been made, since			
		the description, pages				
		the claims, nos the drawings, sheets/figs				
		1 1				
		amutable(a) = 1.44 day				
	If ita	em 4 applies, some or all of those sheets may be marked "supe	annadad "			
Ь	4) 116	spenos, some or an of mose sneets may be marked supe	er seueu.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/001453

Bo	x No. V			ticle 35(2) with regard to novelty, inventive step or industrial applicability; poorting such statement	
1.	Statement				
	Novelty (N)	Claims	1-13	YES
			Claims		NO
	Inventive	step (IS)	Claims	1-13	YES
			Claims		NO
	Industrial	applicability (IA)	Claims	1-13	YES
			Claims		NO
ı					

2. Citations and explanations (Rule 70.7)

Claims 1 to 13

Documents 1 to 3 disclose porous fibers with a porosity of at least 5%, which are configured from a polymer that can be dissolved in a hydrophobic solvent, and indicate that the diameters of the resulting fibers are approximately the same or conform to similar standards. However, the porous fibers that are disclosed in document 1 do not include an organic compound that comprises a plurality of hydroxy groups, and although the inventions that are disclosed in documents 2 and 3 do include an organic compound such as a polyethyleneoxide after fiber formation, the organic compound in question is eluted out in order to form the pores in the invention that is disclosed in document 2, while the organic compound in question is removed by means of baking in the invention that is disclosed in document 3; therefore, the resulting porous fibers do not include an organic compound that comprises a plurality of hydroxy groups. As a result, the inventions that are set forth in claims 1 to 13 differ from the inventions that are disclosed in the abovementioned documents in the light of the abovementioned feature; consequently, the inventions that are set forth in claims 1 to 13 are novel.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

In addition, the inventions that are set forth in claims 1 to 13 make it possible to obtain porous fibers without carrying out complicated processes; therefore, the inventions in question also involve an inventive step.

Document 1: JP 57-51809 A
Document 2: WO 02/16680 A1

Document 3: JP 51-40476 A